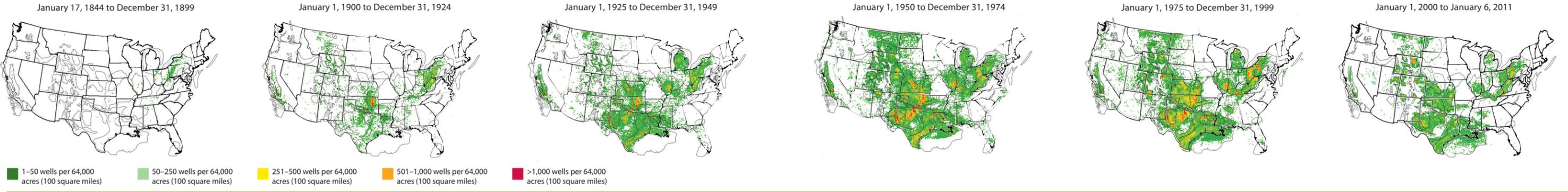


Continuous Innovation of Technology and Environmental Stewardship in the Natural Gas and Oil Industry

DRILLING ACTIVITY IN THE UNITED STATES



ENVIRONMENTAL LAWS & REGULATIONS

- 1863** PA enacts first anti-pollution law preventing running of tar and distillery refuse into creeks
- 1879** NY mandates plugging of abandoned oil and natural gas wells to prevent freshwater contamination
- 1883** OH enacts law regulating methods of casing and plugging oil and natural gas wells
- 1890** PA enacts first law requiring non-producing wells to be plugged
- 1899** TX enacts law on groundwater protection, well abandonment, and conservation of natural gas
- 1915** CA enacts well drilling, production, and abandonment law
- 1917** OK expands oil and natural gas regulatory mandate to groundwater protection and well plugging and abandonment
- 1918** Migratory Bird Treaty Act
- 1924** Oil Pollution Control Act
- 1935** Interstate Oil & Gas Compact Commission (IOGCC) established (OK, TX, CO, IL, NM, and KS)
- 1941** Multiple states enact moratoria on aspects of oil and gas conservation and environmental regulation to support war effort
- 1946** KS Board of Health authorized to regulate oil field brine disposal
- 1946** Bureau of Land Management created by President Harry Truman
- 1948** Federal Water Pollution Control Act (FWPCA)
- 1953** Outer Continental Shelf Lands Act
- 1968** Cuyahoga River engulfed in flames in northeastern OH
- 1969** Santa Barbara oil spill leads to environmental legislation and is the impetus for the environmental law movement in the U.S.
- 1970** National Environmental Policy Act, Occupational Safety and Health Act, Clean Air Act, and the U.S. EPA established
- 1972** Noise Control Act
- 1973** Endangered Species Act
- 1974** Safe Drinking Water Act
- 1976** Resource Conservation and Recovery Act and Federal Land Policy and Management Act
- 1977** Surface Mining Control and Reclamation Act, Toxic Substances Control Act, and FWPCA renamed Clean Water Act
- 1977** FERC established
- 1980** Comprehensive Environmental Response, Compensation and Liability Act
- 1986** Title III Superfund Amendments and Reauthorization Act
- 1987** Pipeline Safety Act
- 1989** Hazard Communication Standard
- 1989** Exxon Valdez runs aground in Prince William Sound, AK
- 1989** GWPC and IOGCC initiate reviews of state oil and natural gas regulatory programs
- 1990** Oil Pollution Act
- 1999** State Review of Oil and Natural Gas Environmental Regulations (STRONGER) established
- 2001** U.S. House passes legislation opening a portion of the Arctic National Wildlife Refuge to oil and gas drilling; Senate rejects proposal
- 2005** Energy Policy Act clarifies hydraulic fracturing with regards to SDWA
- 2005** DOI opens thousands of acres on the Alaska North Slope for drilling
- 2008** Ten-year moratoria on U.S. offshore oil and natural gas leasing end
- 2010** WY enacts new oil and gas regulations requiring full chemical disclosure for hydraulic fracturing fluid additives

1840 First recorded use of natural gas for manufacturing, Centerville, PA

1861-1865 Civil War

1858-1890 Internal combustion engine

1897 Thomas Edison invented incandescent lamp

1903 Wright Brothers' first flight

1905 First gas station

1908 Ford Model-T

1911 U.S. military converts to oil as fuel source

1914-1919 WWI

1929 Start of Great Depression

1939-1945 WWII

1945 World's first nuclear explosion at Trinity test site, Alamogordo, NM

1958 First commercial nuclear power plant, Shippingport, PA

1958 First integrated circuit silicon chip

1960 OPEC formed

1960 First large-scale geothermal electric plant, The Geysers, CA

1969 First man walks on the moon (Neil Armstrong)

1970 Founding of Earth Day

1973 First personal computer

1973 Arab Oil Embargo

1978 Natural Gas Policy Act enables competitive wellhead pricing, which spurs production

1978 NASA dedicates first solar photovoltaic system, AZ

1980 Iraq-Iran War

1980s Large-scale wind farm technology used for the first time in CA

1986 Crude oil price collapses

1990 World Wide Web

1990-1991 Persian Gulf War

1991 Drawdown of Strategic Petroleum Reserve

1997 Kyoto Agreement to limit greenhouse gases

2003 U.S.-Iraq War

2009 Oil price tops \$140/bbl; Dow Jones Industrial Average plunges 360 points

2010 World oil demand reaches 87 million bbls/day